

PURIFICATION OF RED BLOOD CELLS BY
SEPARATION AND DIAFILTRATION

ABSTRACT OF THE DISCLOSURE

Red blood cells are purified by separating whole blood, such as by
5 centrifugation, to form a red blood cell fraction and a liquid fraction. The whole blood
can be defibrinated or treated to prevent coagulation prior to separation. Preferably, the
whole blood is bovine blood. The red blood cell fraction is then diafiltered to purify the
red blood cells. The purified red blood cells can then be lysed to form a lysate of
purified red blood cells. The purified red blood cells and the lysate of purified red blood
10 cells are suitable for use in producing hemoglobin blood substitute.

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